Low-temperature unit
ANL 143 TTK 8-60W-1-P

Electrical data	
Supply voltage	400 V / 50 Hz / 3 Ph
Max. current draw	39 A
Power at rated load	21.5 kW
Minimum cable cross-section for 25 m feed	63 A CEE 5x10 mm²

Refrigeration circuit	
Refrigerant stage 1	R449A
Refrigerant stage 2	R23
Number of refrigeration circuits	2

Consumer circuit	
Pump head	2,0 bar
Volume flow	4,0

Dimensions and weight	
Length	3.000 mm
Width	1.240 mm
Height	2.350 mm
Weight	1.800 kg

Connections	
Consumer	2x Flansch DN 32

Sound pressure level	
at 10 m	45 dB(A)

Operating environment
Max. 35 °C Außentemperatur

Coolant
Methanol Ethanol Therminal D12 Fragoltherm F-12

Special equipment
Verbraucherpumpe: FU Regelung Verdichter: FU Regelung Touchpanel: TP 700-TIA V15.1 Fernwartung: UMTS-Router Steuerung: Siemens SPS S7

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Table 1: Water-cooled at +38 °C inlet (e.g. glycol) tc = 48 °C

Brine temperature [°C]	Compressor stage 2 [°C]	Condenser stage 2 [°C]	Compressor stage 1 [°C]	Capacity control [%]	Cooling capacity [kW]	Electrical power [kW]	Current draw [A]	Heat output [kW]
-70	-75	-20	-25	100	4	7	10.1	11.1
-60	-65	-20	-25	100	8	11.3	16.3	19.2
-50	-55	-20	-25	100	9	13.7	19.8	22.4
-45	-	-	-	-	-	-	-	-
-40	-	-	-	-	-	-	-	-

Table 2: Water-cooled at +27 °C inlet (e.g. cooling tower) tc = 37 °C

Brine temperature [°C]	Compressor stage 2 [°C]	Condenser stage 2 [°C]	Compressor stage 1 [°C]	Capacity control [%]	Cooling capacity [kW]	Electrical power [kW]	Current draw [A]	Heat output [kW]
-70	-75	-20	-25	100	4	6.1	8.9	10.2
-60	-65	-20	-25	100	8	9.3	13.5	17.5
-50	-55	-20	-25	100	9	11.3	16.4	20.4
-45								
-40	-45	-20	-25	100	10	13.3	19.3	23.4

Table 3: Water-cooled at +8 °C inlet (e.g. chiller) tc = 20 °C

Brine temperature [°C]	Compressor stage 2 [°C]	Condenser stage 2 [°C]	Compressor stage 1 [°C]	Capacity control [%]	Cooling capacity [kW]	Electrical power [kW]	Current draw [A]	Heat output [kW]
-70	-75	-20	-25	100	4	5.5	8	10.9
-60	-65	-20	-25	100	8	7.5	10.9	15.9
-50	-55	-20	-25	100	9	9	13.1	18.1
-45		-	-	-	-	-	-	-
-40	-45	-20	-25	100	10	10.5	15.2	20.7

The cooling capacity stated above is the net capacity at the evaporator. The heat input into the hydraulic system caused by external pumps and insulation losses must be taken into account.

****Rated operating point***

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